QP CO	DE:204008 Reg.N	0:
Second B.Pharm (Ayurveda) Degree Examinations, October 2015		
	Pharmaceutical Engineering	
Time: 3		Total Marks: 100
Essays:	 Answer all questions. 	(2x10=20)
1.	Define drying. Discuss the principle, construction a bed dryer with neat diagram	and working of a fluidized
2.	Define corrosion. Explain various types of corrosion for prevention of corrosion	and enlist the approaches
Answer briefly:		(10x5=50)
3.	Working of Swenson-Walker crystallizer	
4.	Energy conservation equation used in fluid studies	
5.	5. Suggest a suitable mixer and its operation for mixing of viscous liquids.	
6.	Fractional distillation	
7.	Various factors that influence the selection of milling	g equipment for size reduction.
8.	Working of multiple effect evaporator	
9.	Working of a centrifuge used for the separation of to of emulsion	wo liquid phases as in case
10	. Differentiate continuous and batch filter and explain	with example
1 1	.Mc-Cabe Thiele method used for the calculation of used for distillation.	number of theoretical plates
12. Importance of stainless steel and glass in pharmaceutical industry Short notes: (10x3=		eutical industry (10x3=30)
13	.Bound moisture and free moisture content	
14	. Define crystal and crystal lattice	
15	. Define the term black body and grey body	
16	.What is Reynolod's number and mention its importa	ance
17. Working of V-cone blender		
18	. Define conveyor and list the conveyors used in indu	ustries
19	.Effects of temperature on evaporation	
20	.Differentiate: Orifice meter and Venturi Meter.	
21	.Check valves	
22	. Rittinger's theory	
